## Patent Claims

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- A vessel for withdrawing blood, containing an aqueous solution with the following components:
- a guanidinium salt;
- a buffer substance;
- a reducing agent; and/or
- a detergent.
- The vessel according to claim 1, characterized in that the guanidinium salt is selected from guanidinium thiocyanate and guanidinium chloride.

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The vessel according to any one of claims 1 er 2, characterized in that the guaniditium salt is present at a concentration of 1 to 8.0 M, preferably 2.5 to 8.0 M.

- 4. The vessel according to any one of claims 1 to 3, characterized in that the buffer substance is selected from Tris, HEPES, MOPS, citrate and phosphate buffer.
- 5. The vessel according to any one of claims 1 to 4, characterized in that the buffer substance is present in a concentration of 10 to 300 mM.
- 6. The vessel according to any one of claims 1 to 5, characterized in that the detergent is selected from Triton-X-100, NP-40, polydocanol and Tween 20.
- 7. The vessel according to any one of claims 1 to 6, characterized in that the detergent is present in a concentration of 5 to 30% by wt.

8. The vessel according to any one of claims 1 to 7, characterized in that the reducing agent is selected from dithiothreitol, ß-mercaptoethanol and TCEP.

9. The vessel according to any one of claims 1 to 8, characterized in that the reducing agent is present in a concentration of 0.1 to 10% by wt.

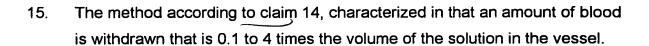
The vessel according to any one of claims 1 to 9, characterized in that the pH of the solution is between 4.0 and 7.5, preferably between 4.0 and 6.5.

- 11. The vessel according to any one of claims 1 to 10, characterized in that the solution contains the following components:
  - 4 m guanidinium thiocyanate;
  - 45 mM Tris/HCl;
  - 15% (w/v) Triton-X-100;
  - 0.8% (w/v) DTT,

wherein the pH is at 6.0.

- 12. The vessel according to any one of claims 1 to 11, characterized in that it has a vacuum in the chamber which is provided for receiving blood.
- 13. The vessel according to any one of claims 1 to 12, characterized in that it contains withdrawn blood.

14. A method of withdrawing blood, comprising the steps of directly introducing the blood into a vessel according to any one of claims 1 to 13.



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The method according to claim 15, characterized in that the final concentration of the guanidinium salt after blood supply is between 1.0 M and 5 M, preferably 1.5 and 5 M.

17. A method for stabilizing and/or isolating nucleic acids from blood, comprising the step of introducing blood into a vessel according to any one of claims 1 to 13 and, optionally, isolating the nucleic acids with conventional methods.

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The method according to claim 14, characterized in that the pH of the solution is adjusted such that following the addition of the sample material a pH between 4.0 and 7.5 is obtained.

- 19. Use of the ressel according to any one of claims 1 to 19 for withdrawing blood, preferably from humans.
- 20. Use of a solution containing a guanidinium salt, a buffer substance, a detergent and/or a reducing agent in a vessel for withdrawing blood.
- 21. A stabilized blood sample obtainable by introducing whole blood into a sessel according to any one of claims 1 to 13.

The blood sample according to claim 21, characterized in that it has a pH of 4.0 to 7.5, preferably 6.6 to 7.0.

23. The blood sample according to claim 21 or 22, characterized in that it is derived from human blood.

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